



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/016,398	12/10/2001	Raymond H. Riner	GRD0126.US	4852

7590 07/13/2006
Todd T. Taylor
TAYLOR & AUST, P.C.
142 S. Main St.
P.O. Box 560
Avilla, IN 46710

EXAMINER

ESTRADA, ANGEL R

ART UNIT	PAPER NUMBER
----------	--------------

2831

DATE MAILED: 07/13/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/016,398

Applicant(s)

RINER, RAYMOND H.

Examiner

Angel R. Estrada

Art Unit

2831

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 May 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-3 and 5-15 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3 and 5-15 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892) ✓
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: _____

DETAILED ACTION

Response to Appeal Brief

1. Applicant's request for reconsideration of the finality of the rejection of the last Office action in the Appeal Brief filed on May 27, 2005 is persuasive and, therefore, the finality of that action is withdrawn.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1, 2, 3, 5, 9, 10-12, 14 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Domigan (US 4,536,612) in view of Rudy et al (US 4,565,416; hereinafter Rudy).

Regarding claim 1, Domigan discloses an underfloor receptacle box system (see figure 1), comprising and electrical cable connector (see figure 2, defined by the socket contact), and a mating power connector (not shown); a housing (2) having a plurality of openings including a first opening (top opening defined by the box) and a second opening (see figure 1); a lid (not shown but mention in column 2 lines 42-44) detachably attached to said housing (see figure 1) substantially closing said first opening (see figure 1 and 4); at least one pass through connector (27,28); said at least one pass through connector (27,28) being at least partially disposed in said second opening (see

figure 1); said at least one said pass-through connector (27) being directly connected to said electrical cable connector (see figure 2) on the inside of said housing and to said mating power connector (not shown) on the outside of said housing (see figure 2); an insert (defined by the reference numbers 15,17 and 20) having at least one angled wall (see figure 1 and 2), said insert (15,17,20) being removably connected to said housing (see figure 1), said insert (15,17,20) having a continuous wireway between said at least one angled wall and said housing (see figure 2); but Domigan lacks the pass-through connector being releasably directly connected to said electrical cable connector. Rudy teaches an electrical cable connector (see figure 1) comprising socket contact (10), a housing (30) and a locking insert (60), said electrical cable connector (see figure 1) being releasably connected to another connector (column 2 lines 44-48). It would have been obvious to one of ordinary skill in the art at the time the invention was made to substitute Domigan's cable connector with Rudy's cable connector to provide means that will make the electrical cable connector releasable from the pass through connector to facilitate the connecting and/or disconnecting of the electrical cable connector with the pass through connector when desired.

Regarding claim 2, Domigan discloses the system (see figure 1), further comprising at least one of an electrical power receptacle (21,22), a telecommunication receptacle and a data receptacle connected to said insert (see figure 2).

Regarding claim 3, Domigan discloses the system (see figure 1), wherein said electrical power receptacle (21,22) is electrically connected to said electrical cable connector (see figure 2).

Regarding claim 5, Domigan discloses the system (see figure 1), wherein said housing (2) has at least one additional opening (40,41) configured for the passage into said housing (see figure 2) of at least one of electrical power, telecommunication and data cables (column 2 lines 32-35).

Regarding claim 9, Domigan discloses the system wherein said at least one angle wall (15,17) of said insert being two angled walls (15,17) and said insert includes a bottom (20) attached between said two angled walls (see figure 2) and said wireway continuous between said bottom and said housing (see figure 2).

Regarding claim 10, Domigan discloses a method of reconfiguring an underfloor receptacle box system (see figure 1), comprising the steps of removing a mounting assembly (9) from the underfloor receptacle box (2); a pass through connector (27,28) being connected to a electrical cable connector (see figure 2) on the inside of the underfloor receptacle box (see figure 2) and a mating power connector (not shown) on the outside of the underfloor receptacle box (see figure 2); installing a pre-configured mounting assembly (9) into the underfloor receptacle box (see figure 2); but Domigan lacks the step of disconnecting said electrical cable connector from the pass through connector and said pass-through connector being releasably directly connected to said electrical cable connector. Rudy teaches an electrical cable connector (see figure 1) comprising socket contact (10), a housing (30) and a locking insert (60), said electrical cable connector (see figure 1) being releasably connected to another connector (column 2 lines 44-48). It would have been obvious to one of ordinary skill in the art at the time the invention was made to substitute Domigan's cable connector with Rudy's cable connector to provide means that will make the electrical cable connector releasable

from the pass through connector to facilitate the connecting and/or disconnecting of the electrical cable connector with the pass through connector when desired.

Regarding claim 11, Domigan discloses the method (see figure 1), wherein said removing step includes the steps of detaching said mounting assembly (9) from a housing of the underfloor receptacle box (see figure 2); and unplugging at least one of said electrical cable connector (see figure 2).

Regarding claim 12, Domigan discloses the method (see figure 1), wherein said installing step includes the sub-steps of connecting at least one of said electrical connector (21,22), said data connector and said telephone connector (see figure 2) to said mounting assembly (9); and attaching said mounting assembly (9) to said housing (see figures 1 and 2).

Regarding claim 14, Domigan discloses the method (see figure 1), further comprising the steps of removing at least one receptacle (21) from said mounting assembly (9); and attaching at least one receptacle (22) to said mounting assembly (see figure 2).

Regarding claim 15, Domigan discloses the system (see figure 1), wherein at least one said pass-through connector (61) is interconnected to one of electrical power, data and telecommunication cable (see figure 1).

3. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Domigan (US 4,536,612) in view of Rudy et al (US 4,565,416; hereinafter Rudy*, alternate interpretation).

Regarding claim 1*, Domigan discloses an underfloor receptacle box system (see figure 1), comprising an electrical cable connector (see figure 2, defined by the socket contact), and a mating power connector (not shown); a housing (2) having a plurality of openings including a first opening (top opening defined by the box) and a second opening (see figure 1); a lid (not shown but mentioned in column 2 lines 42-44) detachably attached to said housing (see figure 1) substantially closing said first opening (see figure 1 and 4); at least one pass through connector (27); said at least one pass through connector (27) being at least partially disposed in said second opening (see figure 1); said at least one said pass-through connector (27) being directly connected to said electrical cable connector (see figure 2) on the inside of said housing and to said mating power connector (not shown) on the outside of said housing (see figure 2); an insert (defined by the reference numbers 15,17 and 20) having at least one angled wall (see figure 1 and 2), said insert (15,17,20) being removably connected to said housing (see figure 1), said insert (15,17,20) having a continuous wireway between said at least one angled wall and said housing (see figure 2); but Domigan lacks the at least one pass-through connector releasably directly connected to said electrical cable connector. Rudy teaches an electrical cable connector (10) being releasably connected to a connector (30, column 4 lines 23-29), said connector (30) having means (60) for securing the electrical cable connector (10). It would have been obvious to one of ordinary skill in the art at the time the invention was made to make Domigan's pass-through connector with means that would permit the engagement and disengagement of the electrical cable connector as taught by Rudy to provide means that will facilitate the

connecting and/or disconnecting of the electrical cable connector with the pass through connector when desired.

4. Claims 6-8 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Domigan (US 4,536,612) in view of Rudy et al (US 4,565,416; hereinafter Rudy) as applied in claim 1, and further in view of Bowman (US 4,967,041).

Regarding claim 6, the modified Domigan discloses claimed invention except for said lid having at least one slot along at least one edge, said at least one slot providing for the passage of electrical interconnections into said housing. Bowman teaches an underfloor receptacle box (see figure 1) having a lid (93) with at least one slot (see figure 9) along at least one edge, said at least one slot (see figure 9) providing for the passage of electrical interconnections into said housing (see figure 4). It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide to Domigan with a lid having at least one slot for the passage of electrical interconnections into said housing as taught by Bowman to provide the lid with a passageway for cables.

Regarding claim 7, Bowman teaches the underfloor receptacle box (see figure 1), wherein said lid (93) includes a bezel (70) that is detachably connected to said housing (column 3 line 66-column 4 line 2), said lid (93) hingeably connected to said bezel (column 4 line 23-30), said bezel (70) having at least one retaining hook (110) which contacts with said at least one slot (see figure 4) thereby retaining electrical conductors (see figure 4).

Regarding claim 8, the modified Domigan discloses the system (see figure 1), wherein said housing portion is configured to be mounted below a finished floor level (see figure 2), said bezel (as taught by Bowman) being substantially at said finished floor level (see figure 1 of Bowman) and connected to said housing.

Regarding claim 13, the modified Domigan discloses claimed invention except for the step of removing a bezel with a hingedly lid. Bowman teaches an underfloor receptacle box (see figure 1) having a lid (93) with a bezel (70); the bezel can be removed with a hingedly attached (93) from the box. It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide to Domigan with a step of removing a bezel with a hingedly attaching lid from the box as taught by Bowman to provide a step that will removed the bezel from the box to provide the user with access to the mounting assemblies located inside the box.

Response to Arguments

5. Applicant's arguments with respect to claims 1-3 and 5-15 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

6. Any inquiry concerning this communication should be directed to Angel R. Estrada at telephone number (571) 272-1973. The Examiner can normally be reached on Monday-Friday (8:30 -5:00).

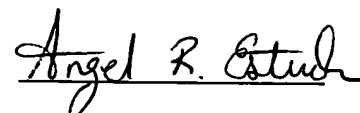
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean Reichard can be reached on (571) 272-2800 Ext: 31. The fax phone

number for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

July 7, 2006



Angel R. Estrada
Primary Examiner
Art Unit: 2831